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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/808,109	03/24/2004	Susumu Kashiwase	848075/0077	4170
29619 7590 06/25/2007 SCHULTE ROTH & ZABEL LLP		EXAMINER		
ATTN: JOEL E. LUTZKER			YUN, EUGENE	
919 THIRD AVENUE NEW YORK, NY 10022			ART UNIT	PAPER NUMBER
			2618	
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•			MAIL DATE	DELIVERY MODE
		•	06/25/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

-	Application No.	Applicant(s)	
Office Action Server	10/808,109	KASHIWASE, SUSUMU	
Office Action Summary	Examiner	Art Unit	
	Eugene Yun	2618	
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D/ - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication.  If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from CAUSE the application to become ARANDONE.	N. nely filed the mailing date of this communication.	
Status			
Responsive to communication(s) filed on  2a) ☐ This action is FINAL. 2b) ☒ This  3) ☐ Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final.  nce except for formal matters, pro	secution as to the merits is i3 O.G. 213.	
Disposition of Claims			
4)  Claim(s) 1-7 is/are pending in the application.  4a) Of the above claim(s) is/are withdray  5)  Claim(s) is/are allowed.  6)  Claim(s) 1-7 is/are rejected.  7)  Claim(s) is/are objected to.  8)  Claim(s) are subject to restriction and/or  Application Papers  9)  The specification is objected to by the Examiner  10)  The drawing(s) filed on 06 August 2004 is/are:  Applicant may not request that any objection to the or  Replacement drawing sheet(s) including the correction  11)  The oath or declaration is objected to by the Examiner	r election requirement.  r. a)⊠ accepted or b)⊡ objected t drawing(s) be held in abeyance. See on is required if the drawing(s) is obj	37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
<ul> <li>12) Acknowledgment is made of a claim for foreign</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents</li> <li>2. Certified copies of the priority documents</li> <li>3. Copies of the certified copies of the priority application from the International Bureau</li> <li>* See the attached detailed Office action for a list of</li> </ul>	s have been received. s have been received in Application ity documents have been receive (PCT Rule 17.2(a)).	on No d in this National Stage	
Attachment(s)    Notice of References Cited (PTO-892)   Notice of Draftsperson's Patent Drawing Review (PTO-948)   Information Disclosure Statement(s) (PTO/SB/08)   Paper No(s)/Mail Date	4) Interview Summary ( Paper No(s)/Mail Dat 5) Notice of Informal Pa 6) Other:	e	

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## **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-7 are rejected under 35 U.S.C. 102(b) as being anticipated by Takai (US 6,509,865).

Referring to Claim 1, Takai teaches a wireless communication apparatus, that communicates with a base station, comprising:

An adaptive antenna (see col. 3, lines 11-14);

A receiving portion for receiving a control signal, to control directivity of said adaptive antenna, transmitted from said base station (see col. 3, lines 20-24); and

A control portion for controlling the directivity of said adaptive antenna to be a beam steering or a null steering based on the control signal (see col. 3, lines 15-18).

Referring to Claim 2, Takai also teaches said control portion controlling the directivity of said adaptive antenna by changing weighting of the beam steering and the null steering of said adaptive antenna (see col. 3, lines 40-52).

Referring to Claim 3, Takai also teaches said control portion controlling the directivity of said adaptive antenna every frequency used by said wireless communication apparatus (see col. 7, lines 8-15).

Referring to Claim 4, Takai also teaches a receiving quality monitoring portion for monitoring quality of a signal from said base station (see col. 12, lines 35-40); and

A quality information transmitting portion for transmitting information about quality of a receiving signal monitored by said receiving quality monitoring portion to said base station (see col. 12, lines 40-44),

Wherein said control portion controls the directivity of said adaptive antenna based on the control signal which said base station calculates based on the quality information (see col. 12, lines 45-52).

Referring to Claim 5, Takai also teaches controlling the directivity of said adaptive antenna based one the control signal which said base station produces according to the number of wireless communication apparatuses connected to said base station (see col. 3, lines 53-64).

Referring to Claim 6, Takai also teaches controlling the directivity of said adaptive antenna based on the control signal which said base station produces according to the amount of communication in said base station (see col. 3, lines 53-64).

Referring to Claim 7, Takai also teaches a battery remaining amount detection portion for detecting a remaining amount of a battery powering said wireless communication apparatus, wherein said control portion stops the control of the directivity of said adaptive antenna based on a result of comparison between a predetermined threshold value and the remaining amount of said battery detected by said battery remaining amount detection portion (see col. 11, lines 20-30).

## Conclusion

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eugene Yun whose telephone number is (571) 272-7860. The examiner can normally be reached on 9:00am-6:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew D. Anderson can be reached on (571)272-4177. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Eugene Yun Examiner Art Unit 2618

EY

MATTHEW ANDERSON SUPERVISORY PATENT EXAMINER